BSC (HONS) CHEMISTRY

Overview

Status: Active
National Framework Of Qualifications (NFQ) Level: 8
NFQ Award Class: Major Award
Duration Full Time: 4 Academic Year(s)
Total Credits: 240
Delivery Method: In-Person

Connected Curriculum:

- Employability
- Inter-and Transdisciplinary
- Research Based Teaching
- Sustainability

Sustainable Development Goals (SDGs):

- Good Health and Well-being
- Quality Education
- Clean Water and Sanitation
- Affordable and Clean Energy
- Sustainable Cities and Communities
- Climate Action
- Life Below Water
- Life on Land

Graduate Attributes:

- Creator, evaluator and communicator of knowledge
- Digitally Fluent
- Independent and creative thinker

Work-Integrated Learning (Including Placement):
Yes

Eligibility

Students may enter the Chemistry programme from the following First Science entry streams: Biological and Chemical Sciences (CK402 entry) (https://ucc-ie-public.courseleaf.com/programmes/bscbf/) and Chemical Sciences (CK406 entry). (https://ucc-ie-public.courseleaf.com/programmes/bsccm/) Students must have passed First Science and both chemistry modules (CM1200 and CM1201). There are 60 places in total available in each year.

Quotas

In filling the quota, places will be allocated to students passing first year CK406 at the First University Examination in Science at the Summer Examination or at the Autumn Supplemental Examination who opt to enter the programme. Remaining places will be allocated to students passing first year CK402 at the First University Examination in Science at the Summer Examination in the first year of registration who opt to enter the programme in order of merit of total marks of Chemistry (CM1200 and CM1201) obtained thereat. Remaining places, if any, will be filled in order of merit without distinction as to when the examination was completed. The decision as to the filling of such remaining places will be made after the results of the Autumn Supplemental Examination are known.

Table 3: Chemistry Programme Overview

First Science	Second Science	Third Science	Fourth Science
CK402 or CK406	CM (40 credits)	CM (60 credits)	BSc Single Honours
CM1200 and CM1201	+ 20 credits		CM (45 credits)
	chosen from: BC/MA/ML/PY/ST		+ projects (15 credits)

Second Year - Chemistry

The Second Science programme consists of modules of Chemistry to the value of **40** credits and additional modules to the value of **20** credits offered by cognate departments.

Elective MOdules

In Second Year no more than **15** credits may be selected from any one elective subject. The selection of elective modules in Second Science may depend on the student having taken the corresponding prerequisite elective module(s) in First Science.

Optional Module - CM0004 (5 credits)

Students interested in taking this optional module must note their interest to the module co-ordinator in the first week of Semester 1. Places are limited and will be allocated based on results obtained in First Year and subject to the approval of the Programme Co-ordinator. CM0004 is not included for progression to subsequent year and is not counted toward the final degree award. The result obtained in CM0004 will be recorded on the student's transcript.

Transfer from Second Science Chemistry to Biochemistry

Students who have taken Second Science Chemistry with BC2001, BC2002 and ML2901 may apply to the Head of the School of Biochemistry and Cell Biology by the **First Friday in August** to transfer to the Third Science Biochemistry Degree programme. Awarding of places is subject to the approval of the Head of the School of Biochemistry and Cell Biology and will be included in the Biochemistry quota of 30.

Please complete the transfer form available here and submit to the School of Biochemistry and Cell Biology Administration office 3.19, Western Gateway Building, Western Rd, UCC.

Third Year - Chemistry

Students passing Second Science enter the honours degree programme in Chemistry in **Third Year**. The Third Year programme consists of core modules of Chemistry (**60** credits).

Year Abroad

On the recommendation of the Head of the School of Chemistry and subject to the approval of the College, a student may be permitted to undertake the Third Year of their BSc studies at an approved institution abroad following a study programme equivalent to **60** credits. Where a language other than English is the language of instruction at the approved host institution, up to **20** credits of the programme may be dedicated to formal study of the language of instruction. The detailed programme of study shall be proposed by the student in consultation with the approved host institution and the Programme Co-ordinator of the

BSc (Chemistry) degree programme, and shall require the approval of the Head of the School of Chemistry.

The student will be examined by the approved host institution. A student who achieves a pass standard, as defined by the approved host institution, will be deemed to have passed the Third University Examination in Chemistry. A student who fails to achieve a pass standard, as defined by the approved host institution, will be deemed to have failed the Third University Examination in Chemistry and will be eligible to undertake the Third Year programme at UCC in a Repeat Year. The detailed transcript of results will be communicated by the host institution to the Autumn Examination Board, UCC, and will form part of the student's formal academic record.

SEMESTER ABROAD

On the recommendation of the Head of the School of Chemistry and subject to the approval of the College, a student may be permitted to undertake the First or Second Semester of the Third Year of their BSc studies at an approved institution abroad following a study programme equivalent to **30** credits. The detailed programme of study shall be proposed by the student in consultation with the approved host institution and the Programme Co-ordinator of the BSc (Chemistry) degree programme, and shall require the approval of the Head of the School of Chemistry.

The student will be examined by the approved host institution in their semester abroad. A student who achieves a pass standard, as defined by the approved host institution, will be deemed to have passed the semester. A student who fails to achieve a pass standard in their semester abroad, as defined by the approved host institution, will be deemed to have failed the Third University Examination in Chemistry and will be eligible to undertake the Third Year programme at UCC in a Repeat Year. The detailed transcript of results will be communicated by the host institution to the Autumn Examination Board, UCC, and will form part of the student's formal academic record.

Optional Module - CM0005 (5 credits)

Students interested in taking this optional module must note their interest to the module co-ordinator in the first week of Semester 2. Students who have passed the prerequisite CM0004 will be allocated a place, subject to the approval of the Programme Co-ordinator. CM0005 is not included for progression to subsequent year and is not counted toward the final degree award. The result obtained in CM0005 will be recorded on the student's transcript.

OPTIONAL MODULE - CM4211 (5 CREDITS)

Students interested in taking this optional module must secure a work placement relevant to the discipline, subject to the approval of the School of Chemistry. The work placement is to be undertaken in June-August (minimum four weeks) following the Third Year Summer Examination. CM4211 Work Placement for Chemistry Students is not included for progression to subsequent year and is not counted towards the final degree award. The result obtained in CM4211 Work Placement for Chemistry Students will be recorded on the student's transcript.

BSc Ordinary Degree - NFQ Level 7, Major Award

Students who pass Third Year may choose not to proceed to Fourth Year and may opt instead to be conferred with a BSc Ordinary Degree (https://ucc-ie-public.courseleaf.com/programmes/bscpas/).

Fourth Year - Chemistry

The Fourth Year programme consists of core modules of Chemistry to the value of **40** credits, one elective Chemistry module to the value of **5** credits and the Chemistry research project module CM4206 (**15** credits), which contains research projects, continuous assessments and the problem paper examination.

Programme Requirements

For information about modules, module choice, options and credit weightings, please go to Programme Requirements (p.).